

§ 86.099-9 Emission standards for 1999 and later model year light-duty trucks.

(a)(1)(i)-(iii) [Reserved]

(iv) CST emissions from gasoline-fueled Otto-cycle light-duty trucks measured and calculated in accordance with subpart O of this part may not exceed the standards listed in paragraphs (a)(1)(iv) (A) and (B) of this section.

(A) Hydrocarbons: 100 ppm as hexane.

(B) Carbon monoxide: 0.5%.

(2) [Reserved]

(3) The standards set forth in paragraph (a)(1)(iv) of this section refer to the exhaust emitted during the CST as set forth in subpart O of this part and measured and calculated in accordance with those provisions.

(b) Evaporative emissions from light-duty trucks shall not exceed the following standards. The standards apply equally to certification and in-use vehicles. The spitback standard also applies to newly assembled vehicles. For certification vehicles only, manufacturers may conduct testing to quantify a level of nonfuel background emissions for an individual test vehicle. Such a demonstration must include a description of the source(s) of emissions and an estimated decay rate. The demonstrated level of nonfuel background emissions may be subtracted from emission test results from certification vehicles if approved in advance by the Administrator.

(1) *Hydrocarbons (for gasoline-fueled, natural gas-fueled, and liquefied petroleum gas-fueled vehicles)*. (i)(A) For gasoline-fueled heavy light-duty trucks with a nominal fuel tank capacity of at least 30 gallons:

(1) For the full three-diurnal test sequence described in § 86.130-96, diurnal plus hot soak measurements: 2.5 grams per test.

(2) For the supplemental two-diurnal test sequence described in § 86.130-96, diurnal plus hot soak measurements: 3.0 grams per test.

(B) For all other light-duty trucks:

(1) For the full three-diurnal test sequence described in § 86.130-96, diurnal plus hot soak measurements: 2.0 grams per test.

(2) For the supplemental two-diurnal test sequence described in § 86.130-96, diurnal plus hot soak measurements

(gasoline-fueled vehicles only): 2.5 grams per test.

(ii) *Running loss test (gasoline-fueled vehicles only)*: 0.05 grams per mile.

(iii) *Fuel dispensing spitback test (gasoline-fueled vehicles only)*: 1.0 grams per test.

(2) *Total Hydrocarbon Equivalent (for methanol-fueled vehicles)*. (i)(A) For heavy light-duty trucks with nominal fuel tank capacity of at least 30 gallons:

(1) For the full three-diurnal test sequence described in § 86.130-96, diurnal plus hot soak measurements: 2.5 grams carbon per test.

(2) For the supplemental two-diurnal test sequence described in § 86.130-96, diurnal plus hot soak measurements: 3.0 grams carbon per test.

(B) For all other light-duty trucks:

(1) For the full three-diurnal test sequence described in § 86.130-96, diurnal plus hot soak measurements: 2.0 grams carbon per test.

(2) For the supplemental two-diurnal test sequence described in § 86.130-96, diurnal plus hot soak measurements: 2.5 grams carbon per test.

(ii) Running loss test: 0.05 grams carbon per mile.

(iii) Fuel dispensing spitback test: 1.0 gram carbon per test.

(3) The standards set forth in paragraphs (b) (1) and (2) of this section refer to a composite sample of evaporative emissions collected under the conditions and measured in accordance with the procedures set forth in subpart B of this part.

(4) All fuel vapor generated in a gasoline- or methanol-fueled light-duty truck during in-use operations shall be routed exclusively to the evaporative control system (e.g., either canister or engine purge). The only exception to this requirement shall be for emergencies.

[58 FR 16025, Mar. 24, 1993, as amended at 58 FR 58422, Nov. 1, 1993; 59 FR 48503, Sept. 21, 1994; 60 FR 43888, Aug. 23, 1995; 75 FR 22980, Apr. 30, 2010]

§ 86.099-10 Emission standards for 1999 and later model year Otto-cycle heavy-duty engines and vehicles.

Section 86.099-10 includes text that specifies requirements that differ from